Technical manual

Aerosol generator — Pyrotechnic firefighting device

Installation · Operation · Maintenance

Classification Pyrotechnic article category P1 — Directive 2013/29/EU	**Reference standards** EN 16263-2 / -4 / -5:2015 (pyrotechnic articles — other articles)
CE marking EU type-examination (module B) completed — LOM, notified body No. 0163	**Document reference** SPM-MT-001 — revision 1.1 — November 2026
Use Consumers (Habitat range) and professionals (Pro and Industrie ranges)	**Manufacturing** Designed and manufactured in France (Toulouges, 66350) — Origine France Garantie No. 30748994

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Notice of use

This manual is the technical reference for the StickerProMaxx range. It describes the operating principles and the rules for sizing, installing, operating and maintaining the system.

All installations must comply with the requirements of this manual and with applicable local regulations. StickerProMaxx devices do not replace a Fire Safety System (SSI) where one is required.

Intended readers

- End users (Habitat range).
- Professional integrators and installers (Pro and Industrie ranges).
- Engineering consultants, insurers and inspection bodies.

> **LIABILITY**
> Failure to comply with the requirements of this manual is the sole responsibility of the installer or user. Fire Safety SAS cannot be held liable for a non-compliant installation.

Conventions

Box	Meaning
Red	Danger or prohibition: risk to people or loss of the extinguishing function
Orange	Caution: risk of malfunction or non-compliance
Green	Good practice or reassuring safety information
Grey	Additional information

Glossary

Term	Definition
Heat-sensitive cable	Green cord that detects fire and triggers the generator. No electrical function.
Design density	Mass of extinguishing agent per protected volume (g/m³).
SSI	Fire Safety System (Système de Sécurité Incendie).
SDS	Safety Data Sheet.
NEC	Net explosive content of an article: aerosol pellets + heat-sensitive cord. Value declared in the CE technical documentation; basis for calculating transport quantities (§2.5).
Aerosol pellet	Solid aerosol-generating pellet: 6.1 g (SPM-125 to SPM-1000) or 3.66 g (Habitat range and SPM-50Mx).
AS-SERIE junction	Crimp junction sleeve for extending the heat-sensitive cable or linking several generators in series (§3.5).

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Revision history

Revision	Date	Changes
1.0	November 2026	Document created.
1.1	08/11/2026	Ranges reduced to three: Habitat (SPM-04 to SPM-18, SPM-50M), Pro (SPM-50Mx, SPM-125, SPM-250), Industrie (SPM-500 to SPM-1000). “Pro compact” range withdrawn. SPM-08, SPM-12, SPM-18 and SPM-50M allowed up to 4 rows (selection based on the fullest row).

00 Safety and regulations

Regulatory product identification

Parameter	Value
Designation	Aerosol generator — Pyrotechnic firefighting device (automatic condensed aerosol extinguishing)
Trade name	StickerProMaxx — references SPM-04 to SPM-1000
Pyrotechnic classification	Category P1 — Directive 2013/29/EU
CE marking	EU type-examination (module B) completed with LOM (notified body No. 0163, Madrid)
Standards applied	EN 16263-2:2015 (requirements), EN 16263-4:2015 (test methods), EN 16263-5:2015 (labelling)
Transport — UN number	UN 3178 — Flammable solid, inorganic, n.o.s.
ADR class	4.1 — Packing group III
Net explosive content (NEC)	From 3.68 g (SPM-04) to 48.98 g (SPM-1000) depending on reference — see §2.5
Series	Habitat · Pro · Industrie — 11 references
Place of manufacture	Toulouges (66350), France

Mandatory safety instructions

SAFETY DISTANCE IN THE EVENT OF ACTIVATION

Keep a minimum distance of 1 metre from the protected enclosure or cabinet until extinction is confirmed and it has fully cooled (minimum 15 minutes). Do not open the enclosure before then.

DISCHARGE NOZZLE OUTLET

The aerosol is discharged hot. Leave a minimum clearance of 40 mm in front of the nozzles: no cable, component, plastic or wall within 40 mm. Never point the nozzles towards a ventilation opening or an occupied workstation.

MANDATORY INSTALLATION ORIENTATION

The generator is installed on the ceiling of the enclosure, upside down (nozzles facing downwards), directly above the area to be protected. Mounting on a side wall (generator vertical) is prohibited unless approved in writing by StickerProMaxx technical support.

WORK ON ELECTRICAL EQUIPMENT

Isolate the power supply before any work. Caution: in a domestic consumer unit, the terminals upstream of the main incoming breaker remain live; in a photovoltaic installation, DC circuits remain live while the panels are exposed to light; batteries and inverters retain energy.

Never touch a live part. If in doubt, call a qualified electrician.

LITHIUM BATTERIES

Condensed aerosol extinguishes flames but does not stop thermal runaway in a lithium battery: the battery may continue to heat up, vent gas and reignite. In battery enclosures, converted vehicles and storage installations, StickerProMaxx is a complementary measure and does not replace the battery's own protections (BMS, disconnection, ventilation, venting).

ENCLOSED VOLUME REQUIRED

Device designed exclusively to protect enclosed or semi-enclosed volumes (IP20, indoor use). Not suitable for open spaces or outdoor use outside an enclosure.

SINGLE USE

Single-use device. Replace it after activation. Never attempt to re-arm or reuse an activated device.

NO MODIFICATIONS

Any mechanical, electrical or thermal modification of the generator or heat-sensitive cable is prohibited and voids the warranty. Extensions must be made only with certified accessories (§3.6).

EXPLOSIVE ATMOSPHERES (ATEX)

Installation in an ATEX-classified area requires a prior risk assessment. Consult StickerProMaxx technical support.

Hazard pictograms



Transport, storage and disposal

Subject	Requirements
Road transport (ADR)	UN 3178, class 4.1, packing group III. The net explosive content of each reference (NEC, §2.5) is used to calculate quantities per package. Limited quantity (ADR chapter 3.4) or excepted quantity (chapter 3.5) provisions depend on the mass per package and the packaging. **Excepted qty: 1 kg NEC / 10 kg package**
Air transport (IATA)	Dangerous goods: as for ADR
Storage	Dry, ventilated room, between −30 °C and +70 °C, away from heat and ignition sources, separated from flammable materials, in the original packaging.
Maximum storage period	12 months before installation, in the original unopened packaging.
Disposal — unactivated product	Pyrotechnic article: do not throw away. Hand over to an approved pyrotechnic waste channel or return to Fire Safety SAS.
Disposal — activated product	No active material left: ordinary industrial waste, to be taken to a recycling centre or appropriate collection point. Housing 100 % recyclable. Eco-organisation: CITEO No. FR478497_01SBFB.

What to do in the event of an incident

Accidental activation outside an enclosure

- Leave the area immediately and close the room.
- Ventilate thoroughly for at least 15 minutes before returning.
- Wear an FFP2 mask or higher to re-enter the area.
- If eye or respiratory irritation persists, consult a doctor.

Contact with aerosol residue

- Skin: wash thoroughly with soap and water.
- Eyes: rinse with clean water for at least 15 minutes; consult a doctor if irritation persists.
- Ingestion: do not induce vomiting; consult a doctor or poison centre immediately.

Full safety data sheet available on request: support@stickerpromaxx.com

EU declaration of conformity

> **STATUS**
>
> EU type-examination (module B, Directive 2013/29/EU, harmonised standards EN 16263-2/-4/-5:2015) completed with LOM (Laboratorio Oficial Madariaga, notified body No. 0163, Madrid).

Responsible manufacturer: Fire Safety SAS — 66350 Toulouges, France — RCS Perpignan 934 266 669

01 General overview

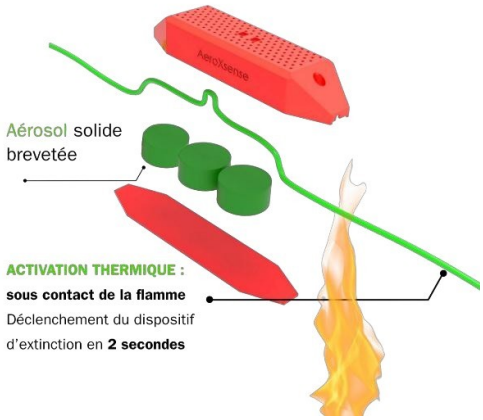
1.1 Operating principle — condensed aerosol

The StickerProMaxx range automatically protects confined and technical volumes: consumer units and electrical enclosures, electrical cabinets, IT racks, control cabinets and energy enclosures.

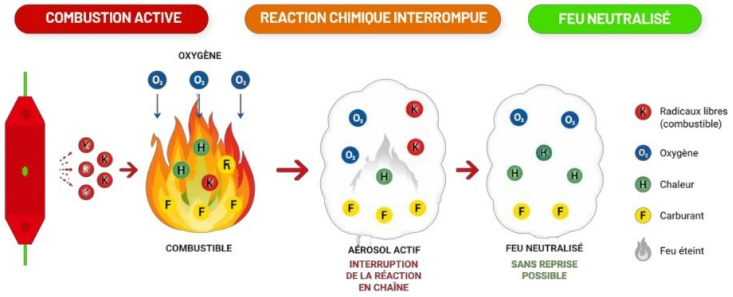
The generator contains a patented solid composition. When activated, it releases an ultrafine condensed aerosol (particles < 5 microns) based on potassium and strontium salts, which interrupts the combustion chain reaction by chemical inhibition (capture of free radicals).

Unlike inert gas agents, the aerosol works **without significantly lowering the oxygen level** and without pressurising the enclosure. It remains suspended for several minutes, which limits the risk of reignition during cooling.

Activation is thermal: the heat-sensitive cable ignites on contact with flame (170 °C ± 10 °C) and activates the generator in 2 to 4 seconds.



Exploded view — generator, patented solid composition, thermal activation cable



How condensed aerosol works — chemical inhibition of the chain reaction

1.2 Technological advantages

Extinction by chemical inhibition Fire classes B, C, E and F: effective. Class A: limited.	**Non-conductive agent on discharge** Minimal, non-corrosive residue. Potassium salt residues are hygroscopic: they must be cleaned after activation (§4.2), especially in humid environments.
Stand-alone system No pressure, no pipework, no cylinder, no power supply, no maintenance.	**Compact integration** Format suited to tight enclosures and cabinets. Fixed with double-sided adhesive and/or screws in 30 seconds.

1.3 Compliance and service life

Item	Status / value
Directive	2013/29/EU — pyrotechnic article category P1
CE assessment	Module B (EU type-examination) completed — LOM, notified body No. 0163; module D (production) in progress
Standards	EN 16263-2 / -4 / -5:2015
Intellectual property	Composition protected by a European patent
Origin	Designed and manufactured in France — Origine France Garantie No. 30748994
Environment	ODP = 0; GWP = 0 — SDS available on request

SERVICE LIFE AND MANDATORY REPLACEMENT

Maximum life: 6 years from the date of manufacture (including a maximum of 12 months' storage before installation).

Service life: 5 years from the date of commissioning.

Replacement is mandatory at whichever of the two deadlines is reached first.

1.4 Liability and limits of use

As category P1 articles, Habitat range products may be installed by a private individual, provided this manual is strictly followed. The Pro and Industrie ranges are intended for qualified installers.

StickerProMaxx is a stand-alone local protection. It does not replace a statutory fire safety system, centralised fire detection or the site's contractual requirements.

Restrictions of use

- ATEX-classified areas: prior risk assessment mandatory.
- Non-confined or open-air spaces: effectiveness not guaranteed outside an enclosed or semi-enclosed volume.
- Lithium batteries: complementary protection only (see chapter 00).
- Installation inside an already certified appliance (household appliance, machine, vehicle): this constitutes a modification of the appliance and is the installer's responsibility; first obtain the agreement of the appliance manufacturer and the insurer.

IF IN DOUBT

Consult StickerProMaxx technical support before any installation. Overall compliance of an installation is the joint responsibility of the client, the installer and the insurer.

02 Technical specifications and sizing

Three ranges, eleven references:

Range	References	Use
Habitat	SPM-04, SPM-08, SPM-12, SPM-18, SPM-50M	Residential consumer units and small enclosures — 30 L (50 L for the SPM-50M)
Pro	SPM-50Mx, SPM-125, SPM-250	4-row boards (full protection), commercial enclosures and small cabinets — up to 250 L
Industrie	SPM-500, SPM-750, SPM-1000	Electrical cabinets up to 1 m³, series mounting

2.1 Volumetric protection principle

Effectiveness depends on rapidly reaching a minimum aerosol concentration in the protected volume. For references SPM-125 to SPM-1000, the design density is 48.8 g/m³ (6.1 g of agent per 125 L). The stated volumes are calculated for a sealed enclosure with uniform distribution and base ventilation of 0 to 2 %.

> **NON-SEALED ENCLOSURE**
> Where natural or forced ventilation exceeds 2 %, or there are unsealed cable entries or leaks, increase the installed capacity: contact StickerProMaxx support for a custom calculation.

2.1.1 Maximum width and height protected per generator

Sizing is not based on the total enclosure volume alone: the width and height of the zone assigned to each generator must also be respected to ensure rapid, uniform distribution.

Reference	Maximum zone width	Maximum zone height
SPM-04	71 mm (4 breakers, one row)	200 mm
SPM-08	142 mm per row (8 breakers × 4 rows max)	650 mm
SPM-12	212 mm per row (12 breakers × 4 rows max)	650 mm
SPM-18	319 mm per row (18 breakers × 4 rows max)	650 mm
SPM-50M	212 mm per row (12 breakers × 4 rows max)	650 mm
SPM-50Mx	230 mm per row (13 breakers × 4 rows)	650 mm
SPM-125	600 mm	900 mm
SPM-250	650 mm	1,100 mm
SPM-500	800 mm	1,900 mm
SPM-750	1,100 mm	1,900 mm
SPM-1000	1,200 mm	1,900 mm

For the Habitat range and the SPM-50Mx, the maximum zone width is the number of modular breakers (17.7 mm pitch) covered by the heat-sensitive cable, and the maximum height is the permitted mounting height from the bottom of the enclosure. For a multi-row board, the reference is selected based on the fullest row.

The length of the heat-sensitive cable defines only the detection zone: it does not increase the generator's discharge width or extinguishing capacity.

When the enclosure width exceeds the reference's limit, the enclosure is divided into theoretical zones, each fitted with its own generator, evenly spaced. The generators are then linked in series (§3.5) for simultaneous activation.

Two cumulative conditions: the total capacity of the generators is at least equal to the total volume, and each generator covers the volume, width and height of its zone. This rule applies even if the total volume is less than the rated volume of a single generator.

Example — 180 × 120 × 40 cm cabinet

Volume: 1.80 × 1.20 × 0.40 = 0.864 m³, i.e. 864 litres. On volume alone, one SPM-1000 would seem sufficient, but its maximum width is 1,200 mm: the 1,800 mm cabinet must be divided.

	Solution A	Solution B	Rejected 1	Rejected 2
Zones	2 × 90 cm	3 × 60 cm	2 × 90 cm	3 × 60 cm
Volume per zone	432 L	288 L	432 L	288 L
Generator	SPM-750	SPM-500	SPM-500	SPM-250
Max width / zone	900 ≤ 1,100 mm ✓	600 ≤ 800 mm ✓	900 > 800 mm ×	600 ≤ 650 mm ✓
Max height / cabinet	1,200 ≤ 1,900 mm ✓	1,200 ≤ 1,900 mm ✓	1,200 ≤ 1,900 mm ✓	1,200 > 1,100 mm ×
Volume / zone	432 ≤ 750 L ✓	288 ≤ 500 L ✓	432 ≤ 500 L ✓	288 > 250 L ×
Total agent	73.2 g	73.2 g	—	—

KEY POINT

Each zone must simultaneously meet the volume, width and height of the chosen reference. Several compliant solutions may exist: here 2 × SPM-750 or 3 × SPM-500, connected in series.

► **To select the right references for your enclosure, contact support:** support@stickerpromaxx.com — www.stickerpromaxx.com

2.2 Pro range (SPM-125, SPM-250) and Industrie range (SPM-500 to SPM-1000)

Designed for professional environments:

- **Electrical boards and cabinets**: main LV switchboards, LV distribution cabinets, metering enclosures, power factor correction cabinets.
- **IT and telecoms**: server racks, patch cabinets, UPS units, telecoms cabinets.
- **Automation**: PLC/SCADA cabinets, drive enclosures, supervision cabinets.
- **Industrial production**: machine tool cabinets, enclosed robotic cells, automated lines.
- **Energy and transport**: PV DC/AC enclosures, EV charging cabinets, commercial vehicles, containers, ships.

100 mm housing (SPM-125, SPM-250) or 135 mm (Industrie), 1 to 8 pellets of 6.1 g, 50 cm heat-sensitive cable. Mounting on the enclosure ceiling only, above the hazard. Series mounting possible (§3.5). Net explosive contents (NEC) and gross masses are those declared in the CE technical documentation. The Pro range also includes the SPM-50Mx, intended for 4-row boards and described in §2.4.

Characteristic	SPM-125	SPM-250	SPM-500	SPM-750	SPM-1000
Range	Pro	Pro	Industrie	Industrie	Industrie
ABS V0 housing (mm)	100 × 25 × 20.3	100 × 25 × 20.3	135 × 45 × 20.3	135 × 45 × 20.3	135 × 45 × 20.3
Heat-sensitive cable (detection width)	50 cm	50 cm	50 cm	50 cm	50 cm
Aerosol pellets (6.1 g)	1	2	4	6	8
Agent mass	6.1 g	12.2 g	24.4 g	36.6 g	48.8 g

Characteristic	SPM-125	SPM-250	SPM-500	SPM-750	SPM-1000
Net explosive content (NEC)	6.28 g	12.38 g	24.58 g	36.78 g	48.98 g
Gross article mass	26.6 g	32.7 g	62.4 g	74.6 g	86.8 g
Protected volume	125 L	250 L	500 L	750 L	1,000 L
Max zone width	600 mm	650 mm	800 mm	1,100 mm	1,200 mm
Max zone height (mounting height)	900 mm	1,100 mm	1,900 mm	1,900 mm	1,900 mm
Discharge time	10–20 s	12–22 s	16–26 s	20–30 s	22–32 s
Activation	170 ± 10 °C	170 ± 10 °C	170 ± 10 °C	170 ± 10 °C	170 ± 10 °C
Operating range	−30 / +70 °C	−30 / +70 °C	−30 / +70 °C	−30 / +70 °C	−30 / +70 °C

HAZARD WIDTH

An 80 cm wide enclosure cannot be protected by a single SPM-125 or SPM-250; an 85 cm enclosure by a single SPM-500; 120 cm by a single SPM-750; 130 cm by a single SPM-1000. Add heat-sensitive cable or a second unit connected in series (AS-SERIE junction).

2.3 Habitat range (SPM-04 to SPM-18)

Compact solutions (67 × 25 × 14.9 mm) for residential use and small boards only, enclosure of 30 L maximum. The Habitat range also includes the SPM-50M (50 L enclosure), described in §2.4:

- Residential consumer units in houses or flats.
- Small commercial boards: offices, shops, practices.
- Small technical spaces: metering, access control, intercom and CCTV enclosures.
- Residential energy: PV connection enclosures, domestic EV charging enclosures.
- Outdoor enclosures: pool, irrigation, lighting — always installed inside the closed enclosure.
- Junction boxes and service ducts in lofts, false ceilings and crawl spaces.
- Converted vehicles: 12 V / 230 V boards and inverters (see lithium battery warning).
- Household appliances: see §1.4 — installation in a certified appliance is the installer's responsibility.

The reference is selected based on the number of breakers in the fullest row, according to the calculation in §3.4.

Characteristic	SPM-04	SPM-08	SPM-12	SPM-18
ABS V0 housing (mm)	67 × 25 × 14.9	67 × 25 × 14.9	67 × 25 × 14.9	67 × 25 × 14.9
Heat-sensitive cable (detection width)	5 cm	13 cm	23 cm	33 cm
Capacity (17.7 mm modular breakers)	4 max, one row	8 max per row, up to 4 rows	12 max per row, up to 4 rows	18 max per row, up to 4 rows
Maximum enclosure volume	30 L	30 L	30 L	30 L
Mounting height (from bottom of enclosure)	≤ 20 cm	≤ 65 cm	≤ 65 cm	≤ 65 cm
Aerosol pellet	1 × 3.66 g	1 × 3.66 g	1 × 3.66 g	1 × 3.66 g
Net explosive content (NEC)	3.68 g	3.71 g	3.74 g	3.78 g
Gross article mass	12.8 g	13.3 g	13.9 g	14.5 g

Characteristic	SPM-04	SPM-08	SPM-12	SPM-18
Discharge time	6–12 s	6–12 s	6–12 s	6–12 s
Activation	170 ± 10 °C	170 ± 10 °C	170 ± 10 °C	170 ± 10 °C
Operating range	−30 / +70 °C	−30 / +70 °C	−30 / +70 °C	−30 / +70 °C

HABITAT RANGE — SPECIFIC RULE

Small agent masses do not behave like larger ones: the Habitat range does not follow the g/m³ calculation used for references SPM-125 to SPM-1000. The SPM-04 to SPM-18 are deliberately limited to a 30-litre enclosure, for protecting residential consumer units only.

Above 30 L, or for a board with more than 18 modules per row, use the SPM-50M (Habitat range, 50 L) or the Pro range (SPM-50Mx, SPM-125, SPM-250).

2.4 120 mm housing references: SPM-50M (Habitat range) and SPM-50Mx (Pro range)

Boards and enclosures up to 50 L. Both references use the 3.66 g pellet in a 120 mm ABS V0 housing, with two detection loops, and differ only in the length of the heat-sensitive cable:

- **SPM-50M — Habitat range**: board with up to 12 breakers per row, up to 4 rows; the cable is laid above the fullest row.
- **SPM-50Mx — Pro range**: board with 4 rows of up to 13 breakers; the cable is laid above each row, for flame detection in about 2 seconds (full protection).

Mounting on the enclosure ceiling only, directly above the area to be protected, no more than 65 cm from the bottom of the enclosure.

Characteristic	SPM-50M	SPM-50Mx
Range	Habitat	Pro
ABS V0 housing (mm)	120 × 19 × 16	120 × 19 × 16
Heat-sensitive cable (detection width)	23 cm — 2 loops	135 cm — 2 loops
Capacity (17.7 mm modular breakers)	12 max per row, up to 4 rows	4 rows of 13 max (52)
Cable routing	Above the fullest row	Above each row
Maximum enclosure volume	50 L	50 L
Mounting height	Enclosure ceiling, ≤ 65 cm from bottom	Enclosure ceiling, ≤ 65 cm from bottom
Aerosol pellet	1 × 3.66 g	1 × 3.66 g
Net explosive content (NEC)	3.71 g	4.00 g
Gross article mass	22.40 g	28.35 g
Discharge time	2–4 s	2–4 s
Activation	170 ± 10 °C	170 ± 10 °C
Operating range	−30 / +70 °C	−30 / +70 °C

SPM-50M AND SPM-50Mx — INSTALLATION RULE

The heat-sensitive cable is laid in a straight line across the full width of the row to be protected; the generator stays on the enclosure ceiling, upside down. A 30 cm wide PVC enclosure cannot be effectively protected by an SPM-50M: if the hazard width is greater than or incompatible with the coverage zone, use a reference of suitable capacity or a cable extension (§3.6).

2.5 Masses per reference — CE file and transport data

Values declared in the CE technical documentation. NEC = net explosive content (pellets + heat-sensitive cord composition). Gross mass = complete article (ABS housing, adhesive, cord, pellets), excluding packaging. The heat-sensitive cord contains 0.036 g of composition per 10 cm.

Reference	Range	Housing	Pellets	Cord	NEC (g)	Gross mass (g)
SPM-04	Habitat	67 mm	1 × 3.66 g	5 cm	3.68	12.8
SPM-08	Habitat	67 mm	1 × 3.66 g	13 cm	3.71	13.3
SPM-12	Habitat	67 mm	1 × 3.66 g	23 cm	3.74	13.9
SPM-18	Habitat	67 mm	1 × 3.66 g	33 cm	3.78	14.5
SPM-50M	Habitat	120 mm	1 × 3.66 g	23 cm	3.71	22.40
SPM-50Mx	Pro	120 mm	1 × 3.66 g	135 cm	4.00	28.35
SPM-125	Pro	100 mm	1 × 6.1 g	50 cm	6.28	26.6
SPM-250	Pro	100 mm	2 × 6.1 g	50 cm	12.38	32.7
SPM-500	Industrie	135 mm	4 × 6.1 g	50 cm	24.58	62.4
SPM-750	Industrie	135 mm	6 × 6.1 g	50 cm	36.78	74.6
SPM-1000	Industrie	135 mm	8 × 6.1 g	50 cm	48.98	86.8

TRANSPORT — QUANTITY PER PACKAGE

The mass to be used for ADR thresholds (UN 3178, class 4.1) is the net explosive content of each article (NEC) multiplied by the number of articles in the package. Example: 10 × SPM-1000 = 489.8 g of net pyrotechnic composition per package.

03 Installation and configuration

FUNDAMENTAL RULES — MANDATORY

Installation only in an enclosed or semi-enclosed volume, inside the enclosure.

Strict compliance with the stated volumes, widths and heights.

Generator on the enclosure ceiling, upside down, directly above the hazard; side wall prohibited unless approved in writing by support.

40 mm clearance in front of the nozzles.

No modification of the product; certified accessories only.

3.1 Positioning and alignment

Golden rule: flame – cable alignment

StickerProMaxx is a close-proximity protection. Its 170 °C threshold limits nuisance activations: activation requires the flame or immediate combustion gases to contact the heat-sensitive cable.

1. **Axial alignment essential**: the heat-sensitive cable is placed strictly vertically above the hazard source (terminal blocks, breaker outputs). The flame from an electric arc rises instantly: any offset delays extinction.
2. **Clear line of sight**: no obstacle between the breaker screws and the cable; recommended distance 40 to 50 mm.
3. **Full-width coverage**: the cable must cover the entire width of the hazard. An undersized generator leaves the side areas unprotected.
4. **Alignment impossible — offset**: use a long-cable reference (SPM-50Mx, Pro range) or a heat-sensitive cable extension with AS-SERIE junction. The cable is laid above the hazard; the generator stays on the ceiling, upside down.
5. **Side wall**: mounting the generator vertically is prohibited unless approved in writing by technical support, which sets the conditions.

3.2 The heat-sensitive cable — detection and activation

Each generator is fitted with a heat-sensitive cable that provides detection along its entire length, with no dead zone, and triggers the generator.

Parameter	Value
Activation threshold	170 °C ± 10 °C
Activation time	< 2 to 4 s on contact with flame
Operating range	−30 °C to +70 °C
Minimum bend radius	10 mm
Maximum length per installation	50 m
Generators in series	15 maximum
Electrical connection	None — never connect the heat-sensitive cable to an electrical circuit

3.3 Installation procedure — single unit

BEFORE YOU START

Isolate the power at the main breaker or isolator. Reminder: the supply side of the main incoming breaker, PV DC circuits and batteries remain live. Never touch a live part.

1. Switch off the power at the main breaker / isolator.
2. Remove the front panel or cover of the enclosure.
3. Clean the mounting surface (isopropyl alcohol recommended).
4. Remove the protective film from the double-sided adhesive (or prepare screw fixing).
5. Position the unit on the enclosure ceiling, upside down, aligned as per §3.1, and press firmly for 3 to 4 seconds.
6. Run the heat-sensitive cable above the critical areas, without strain, pinching or bends tighter than 10 mm.
7. Check the 40 mm clearance in front of the nozzles.
8. Refit the front panel and restore power.
9. Fill in the warranty label (installation date, technician's name) and stick it on the front of the board.

30-SECOND INSTALLATION

No electrical connection, no special tools: the device is fixed with its double-sided adhesive or two screws.

3.4 Calculation note — Habitat range

Priority criterion: detection width of the heat-sensitive cable. Width to be protected = number of breakers in the fullest row × 17.7 mm (standard DIN modular pitch). Enclosure limited to 30 L (50 L for the SPM-50M). The SPM-04 is limited to one row; the SPM-08, SPM-12, SPM-18 and SPM-50M are allowed up to 4 rows. A 20 cm wide PVC enclosure cannot be protected by an SPM-04 or SPM-08; a 30 cm enclosure cannot be protected by an SPM-12; a 45 cm enclosure by an SPM-18.

No. of breakers (fullest row)	Width (mm)	Reference	Detection	Status
1	17.7	SPM-04	5 cm	Compliant
2	35.4	SPM-04	5 cm	Compliant
3	53.1	SPM-04	5 cm	Compliant
4	70.8	SPM-04	5 cm	Compliant
5	88.5	SPM-08	13 cm	Compliant
6	106.2	SPM-08	13 cm	Compliant
7	123.9	SPM-08	13 cm	Compliant
8	141.6	SPM-08	13 cm	Compliant
9	159.3	SPM-12	23 cm	Compliant
10	177.0	SPM-12	23 cm	Compliant
11	194.7	SPM-12	23 cm	Compliant
12	212.4	SPM-12	23 cm	Compliant
13	230.1	SPM-18	33 cm	Compliant
14	247.8	SPM-18	33 cm	Compliant
15	265.5	SPM-18	33 cm	Compliant
16	283.2	SPM-18	33 cm	Compliant
17	300.9	SPM-18	33 cm	Compliant

No. of breakers (fullest row)	Width (mm)	Reference	Detection	Status
18	318.6	SPM-18	33 cm	Compliant
> 18	> 318.6	Pro range (SPM-50Mx, SPM-125, SPM-250)	—	Outside Habitat range

Above 30 L, the SPM-50M (Habitat range) covers an enclosure of up to 50 L, with up to 12 breakers per row over 4 rows. For detection above each row, the SPM-50Mx (Pro range) covers up to 4 rows of 13 breakers (§2.4).

3.5 Modular installation — series connection

For volumes exceeding the capacity of one generator, or where the width requires several zones, series connection is mandatory:

- activation transmitted from one generator to the next via the heat-sensitive cable;
- simultaneous or cascade activation of all units;
- uniform distribution throughout the volume;
- maximum 50 m of cable and 15 generators per line;
- junctions made only with crimped AS-SERIE sleeves protected by heat-shrink sleeving.

BENEFIT

Series connection eliminates the risk of partial extinction caused by the isolated activation of a single unit.

3.6 Certified accessories

Accessory	Function	Benefit
Heat-sensitive cable (extension)	Detection / activation, extension of the detection zone	Extended thermal coverage
AS-SERIE junction sleeve (copper, crimp)	Joins two heat-sensitive cables, series connection	Continuity and synchronisation
Heat-shrink sleeving	Sealing of junctions	Moisture protection
Mounting clips	Mechanical fixing of the heat-sensitive cable	Holds without crushing
Crimping tool	Crimping of sleeves	Repeatable crimping
End-of-line cap	Seals the end of the cable	Moisture protection

END-OF-LINE CAP MANDATORY

Omitting the end-of-line cap after an extension or series connection voids the activation guarantee in humid environments. Accessories available from StickerProMaxx support.

3.7 Status reporting

The StickerProMaxx device is fully stand-alone: it neither requires nor includes any electrical connection. Remote reporting of the generator status (to a BMS, PLC or technical control panel) is not included in the StickerProMaxx range. For projects requiring remote monitoring, contact technical support (support@stickerpromaxx.com), who will propose the appropriate professional solution.

04 Maintenance and post-activation procedures

The site operator is responsible for keeping the system in working order, in accordance with this manual and the requirements of its insurer.

4.1 Preventive maintenance

Item	Check	Frequency
Discharge outlets	No obstruction (dust, grease); 40 mm clearance maintained	Annual
Fixing	Adhesion test: the device must not move	Annual
Heat-sensitive cable	No cuts, pinching or bends < 10 mm	Annual
Junctions / cap	Crimps and cap present and in good condition, no corrosion	Annual
Alignment	Cable still directly above the hazard after any board modification	Annual
Deadlines	Check date of manufacture (6 years) and date of commissioning (5 years)	Annual
Complete system	Replacement mandatory at the first deadline reached (§1.3)	5 years' service / 6 years from manufacture

4.2 After activation

1. Do not open the enclosure for 15 minutes; stay at least 1 metre away.
2. Switch off the power supply to the protected equipment.
3. Ventilate the room for at least 15 minutes; in case of breathing discomfort, leave the room and air it.
4. Find and remove the cause of the fire (qualified electrician).
5. Remove residues by HEPA vacuuming or damp wiping on cold, de-energised surfaces; wear gloves and an FFP2 mask.
6. Replace the activated device (single use).

05 Frequently asked questions

Safety and health

Q Is it dangerous for me, my children or my pets?

In a closed enclosure, the aerosol remains mainly confined. At design concentrations it has low toxicity, but its residues irritate the eyes and respiratory tract (see SDS).

After activation, leave the room, close the door and ventilate for at least 15 minutes before returning.

Q What happens after activation?

The fire is stopped inside the enclosure and the aerosol stays suspended for several minutes to limit reignition. Switch off the main power supply, ventilate, have an electrician find the cause and replace the device (§4.2).

> **SINGLE USE**
> The product must be replaced after any activation.

Q Does it make a noise when it activates?

Activation produces a muffled noise, like a brief whoosh, dampened by the enclosure. There is no explosion and nothing is ejected from the enclosure.

Installation

Q Can I install it myself?

Yes for the Habitat range: StickerProMaxx fixes inside the enclosure with no electrical connection. **However, removing a board's front panel exposes parts that may remain live even after switching off (supply side of the main breaker, photovoltaics, batteries).** If in doubt, call an electrician.

Q Where exactly in the board?

The generator is fixed to the enclosure ceiling, upside down; the heat-sensitive cable is laid directly above potential heat sources: terminal blocks, breakers, RCDs. See §3.1 and §3.4, or contact StickerProMaxx support.

Q Can I cut or extend the cable?

Never cut, strip or modify the supplied heat-sensitive cable. Extensions may only be made with original heat-sensitive cable, crimped AS-SERIE sleeves and heat-shrink sleeving, within the limit of 50 m and 15 generators.

Q Does the agent damage electrical equipment?

The aerosol is non-conductive on discharge and non-corrosive. As its residues are hygroscopic, they must be cleaned after activation, especially in humid environments, before power is restored.

Trust and guarantees

Q Is it approved and certified?

StickerProMaxx is designed and manufactured in France (Origine France Garantie No. 30748994) and its composition is protected by a European patent.

The EU type-examination (module B) was carried out by the notified body LOM (No. 0163, Madrid) under Directive 2013/29/EU on pyrotechnic articles; the production module is being completed before CE marking is affixed.

Q Will my insurer take it into account?

Having automatic protection may be an argument when reviewing a policy. Inform your insurer and keep the purchase invoice and the completed warranty label.

Q Does it replace a fire extinguisher?

No. StickerProMaxx is an automatic protection located inside the enclosure. It complements the extinguisher, which is used to fight a fire that has broken out in the room.

Maintenance and service life

Q How long does it last?

It must be replaced 5 years after commissioning, and no later than 6 years after its date of manufacture, whichever comes first. No activation test is possible: the product is single-use.

Q How do I know it still works?

Annual visual check: firmly fixed, outlets clear, cable intact and directly above the hazard, end-of-line cap present, deadlines not exceeded. If any of these points is not met, replace the device.

06 Warranty, support and assistance

6.1 Operational warranty — 5 years

Fire Safety SAS guarantees that the StickerProMaxx device is capable of activating, under normal conditions of installation and use, for 5 years from commissioning and within a limit of 6 years from the date of manufacture.

> **CONDITIONS**
> Warranty subject to strict compliance with chapter 03: detection width suited to the board, end-of-line cap fitted after any extension, generator on the enclosure ceiling upside down, 40 mm clearance in front of the nozzles.

6.2 Warranty against manufacturing defects — 2 years

Fire Safety SAS guarantees the absence of material or manufacturing defects for 2 years from the date of purchase, under normal conditions of installation and use.

Common exclusions

- Any modification of the product, heat-sensitive cable or accessories.
- Any installation not in accordance with this manual.
- Any use outside the stated volumes, applications or configurations.
- Damage due to improper storage or use beyond the expiry date.

Summary	Duration
Operation (ability to activate)	5 years from commissioning
Manufacturing defects	2 years from date of purchase
Maximum life	6 years from date of manufacture
Mandatory replacement	At the first deadline reached

Contact

STICKERPROMAXX — FIRE SAFETY SAS	
Web: www.stickerpromaxx.com	Technical and sales support: support@stickerpromaxx.com
Telephone: +33 (0)6 86 11 96 05	Assistance: Monday to Friday, 9 am – 6 pm
Address: 9 rue Paul Séjourné, Bât. 1, RDC — 66350 Toulouges, France	Manufacturing: Toulouges (66350), France
RCS Perpignan 934 266 669	Origine France Garantie No. 30748994

Services included: feasibility study, installation training, project support.

07 Technical data sheets

The full technical data sheets (performance data, safety, ordering information) are available via the QR codes below and at www.stickerpromaxx.com, where they are kept up to date.

Habitat

SPM-04 *Technical data sheet*	**SPM-08** *Technical data sheet*	**SPM-12** *Technical data sheet*	**SPM-18** *Technical data sheet*	**SPM-50M** *Technical data sheet*

Pro

SPM-50Mx *Technical data sheet*	**SPM-125** *Technical data sheet*	**SPM-250** *Technical data sheet*		

Industrie

SPM-500 *Technical data sheet*	**SPM-750** *Technical data sheet*	**SPM-1000** *Technical data sheet*		